



# EV FACT SHEET

## Audi e-tron

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2021 Audi e-tron Sportsback. Image: Audi

### INTRODUCTION

Announced as a prototype in 2015 and released for sale in March 2019, the e-tron is Audi's first all-electric vehicle. Australian sales of the e-tron began in 2020.

The e-tron label covers two very similar vehicles – the Audi e-tron 50 and the e-tron 55. Each is available with a wagon or 'Sportsback' rear treatment. They also share the same basic interior, dash and seat layouts – with the 55 being the more 'upmarket' version offering additional trim and functions over the 50. The key difference between the two is battery size. The e-tron 50 has 71kWh and the e-tron 55 95kWh.

### DRIVING RANGE

Australian test standards are currently in a state of flux, with the Green Vehicle Guide<sup>1</sup> showing some vehicle driving ranges using either the old (and highly over optimistic) European NEDC test cycle figure or the newer European WLTP test cycle figure. Worse still, for recent additions to the Australian market the GVG often gives no data is given at all! Around town, the WLTP figure is the best guide to range or, if doing outer suburban to regional driving – use the US EPA figure.

Being a large and heavy car, the e-tron does not have industry leading efficiency or range figures, but they are still very good due to the large battery sizes on offer. Coupled with up to 11kW AC and 150 kW DC charge speeds, the e-tron will be an easy car to use for both short commuting trips and long-distance travel.

### DRIVING RANGE (continued)

Version	National testing system range estimates (km)		
	NEDC (Aust)	WLTP (Euro)	US EPA
e-tron 50 (75kWh)	N/A	334	N/A
e-tron 55 (95kWh)	580	446	351

Table 1: Driving range estimates for the Audi e-tron 50 and 55

Using the WLTP range, an e-tron 55 should be capable of a return trip from the Melbourne GPO to Port Welshpool (near Wilsons Promontory) – provided neither the heating or air conditioning were heavily used. For this sort of trip, a 1 to 2 hr 15A charge at a caravan outlet in Port Welshpool (giving approx. 16km charged/hr) or a 10 to 15 min DC fast-charge (few yet available on this route) would be recommended.

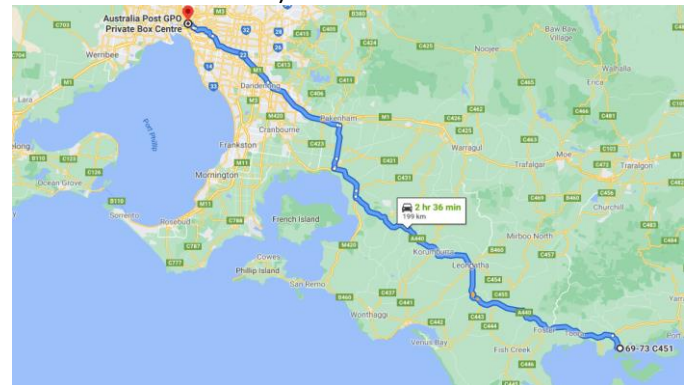


Image: Google maps

### CHARGING SPEEDS/REQUIREMENTS

#### Charging port

The Audi e-tron is fitted with a CCS2 socket allowing it to charge via Type 2 AC chargers<sup>2</sup> as well as CCS2 DC fast-chargers.



CCS2 charging plug and socket

#### Notes:

- <https://www.greenvehicleguide.gov.au>
- The e-tron can be charged at any AC EVSE, however an adaptor will be needed to use the (few) remaining older EVSEs fitted with Type 1 (J1772) plugs.

## CHARGING SPEEDS/REQUIREMENTS (CONTINUED)

### AC charging:

Like all new EVs sold in Australia, the Audi e-tron electric is fitted with a type 2 AC socket as part of the CCS2 AC/DC charge plug system.

### Charging rates:

**Single phase:** maximum of 7.4 kW (32A)

**Three phase:** maximum of 11 kW (16A per phase)

Charging speeds and times vary on the capacity of the EVSE (Electric Vehicle Supply Equipment) it is connected to and the chosen battery size. Charging times for the e-tron 50 and 55 are shown in table 2 below.

e-tron	AC: 0 – 100% time				DC: 0 – 80% time	
	10 A (power point)	15 A 1 phase (Caravan outlet)	32 A (1 phase Home EVSE)	16 or 32 A (3 phase public AC EVSE)	DC Fast charge (50kW)	DC Fast charge (150kW)
50	32h	19.5h	10.5h	16A: 6.75h 32A: 6.75h	53m	23m
55	42h	26h	14h	16A: 9h 32A: 9h	70m	30m

Table 2: Charging times for the Audi e-tron 50 and 55

### DC fast charging:

The e-tron electric uses the CCS2 DC fast-charge connector and can charge at up to 150kW DC. This connector is fast becoming the majority DC fast-charge connector type in both Australia and overseas.

## HOME CHARGING CONSIDERATIONS

### General

To get the shortest home charging time for an e-tron, an 11 kW three phase AC EVSE would be needed. However, depending on your existing power supply and/or charging needs, a lower rated EVSE may only be practicable, or needed. (See notes below). Lower capacity EVSEs will increase charging times, as shown in table 2 above.

The e-tron also comes with a Mode 2 portable EVSE for plugging into a 10A power point. Charging an e-tron from 0 – 100% with this EVSE will take around 32 hours for the e-tron 50 and 42hrs for the e-tron 55.

### Important notes for any home EVSE installation:

1. High charging rates are generally not needed for overnight charging.
2. Homes do not normally have three phase AC connected;
3. Switchboard and/or electrical supply upgrades may be needed if your home is more than 20 years old. (For more information on this item - read articles in:  
(a) Renew magazine edition 143. (EVSE wiring)  
(b) Renew magazine edition 156. (EVSE buyer's guide)

## SPECIFICATIONS

### Boot volumes in litres (1 litre = 10 x 10 x 10 cm)

- Boot: 660 L
- Rear seat folded, loading space to roof: 1,725 L

### Dimensions:

- Overall length: 4,901 mm
- Overall width (mirrors folded/mirrors out): 1,935/2,043 mm
- Overall height: 1,616 mm

### Battery:

- E-tron 50: 71 kWh (64.7 useable)
- E-tron 55: 95 kWh (86 usable)

### Energy consumption: (WLTP test cycle)

- e-tron 50: 23.6 kWh/100km
- e-tron 55: 24.2 kWh/100km

### Kerb weight:

- E-tron 50: 2,445 kg
- E-tron 55: 2,555 kg

### Charging:

- 1 phase AC: 7.4 kW max.
- 3 phase AC: 11 kW max
- DC: 150 kW max.

### Charge port location:

- AC only: LHS, just forward of passenger door.
- AC and DC: RHS, just forward of driver's door.

### Drive configuration:

- All wheel drive.

### Towing:

- 1800 kg braked/750 kg unbraked.

### Performance:

Variant	Max. Power (kW)	0 to 100km/h (Sec)
e-tron 50	230	6.8
e-tron 55	300*	5.7*

\* In 'boost' mode.

### IMPORTANT NOTE:

**Always check all specifications with the manufacturer prior to any purchase. No responsibility accepted by AEVA or Bryce Gatton for errors factual or due to reproduction in this Fact Sheet. Whilst all efforts are made to ensure the accuracy of the material in this Fact Sheet, manufacturers regularly make changes (often unannounced) to their model ranges and specifications.**